

TABLE 1. VISCOSITY (Pa.sec) AT LOW STRESS/LOW SHEAR RATE

Sample number	Solid composition	Particle size (mesh/ microns)	Viscosity at 180°C	Viscosity at 200°C
A. NEAT PP				
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B. AMORPHOUS SOLIDS				
A1	Natural Al-Si	800	3670	1774
A2	Natural Al-Si	800	2775	1438
A3	Opal	800	3393	1842
A4	Synthetic Al-Si	800	3675	1895
A5	Carbon	1200	3210	1657
C. AMORPHOUS/CRYSTALLINE				
A1	Natural Al-Si 90%/10%	325	2685	1433
A1	Natural Al-Si 50%/50%	325	2662	1391
A1	Natural Al-Si 10%/90%	325	3336	1677
D. PARTICLE SIZE				
A1	Natural Al-Si	270	3041	1620
A1	Natural Al-Si	325	2685	1433
A1	Natural Al-Si	800	3460	1827
A1	Natural Al-Si	30-45	2685	--
A1	Natural Al-Si	15-30	2828	2051
A1	Natural Al-Si	9-15	2346	1386
A1	Natural Al-Si	5-9	2391	1171
A1	Natural Al-Si	2-7	2948	1358
A1	Natural Al-Si	<4	2984	1367
E. CONCENTRATION (WT PERCENT)				
A1	Natural Al-Si (0.4%)	800	2671	1505
A1	Natural Al-Si (0.75%)	800	3670	1774
A1	Natural Al-Si (0.75%)	325	2685	1433
A1	Natural Al-Si (1.5%)	325	2710	1565
F. CRYSTALLINE COMPOSITION				
C1	Calcite (carbonate)	800	3421	1769
C2	Apatite (phosphate)	800	3443	1893
C3	Bentonite (clay)	800	3861	2117
C4	Talc (Mg silicate)	800	3423	1883
C5	Copper	1200	--	--
C6	Lead oxide	1200	--	--
C7	Quartz	800	3122	1662
G. MILLING METHOD				
A2A	Natural Al-Si	800	2775	1438
A2B	Natural Al-Si	800	3337	1729
A1A	Natural Al-Si	325	2949	1497
A1C	Natural Al-Si	325	2685	1433